

SEMICONDUCTOR

AXIAL LEAD

DO35

DEVICE MARKING DIAGRAM

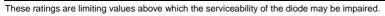
BA Vx

L : Logo Device Code : TC<u>BAVxx</u>

500 mW DO-35 Hermetically Sealed Glass – High Voltage Switching Diodes

Absolute Maximum Ratings T_A = 25°C unless otherwise noted

	3		
Symbol	Parameter	Value	Units
V_{RRM}	Maximum Repetitive Reverse Voltage	250	V
T _{STG}	Storage Temperature Range	-65 to +200	°C
Τ _J	Operating Junction Temperature	+175	°C
I _{F (AV)}	Average Rectified Forward Current	200	mA
I _{FSM}	Non-repetitive Peak Forward Current Pulse Width = 1.0 Second Pulse Width = 1.0 µsecond	1.0 4.0	A A



Thermal Characteristics

Symbol	Parameter	Value	Units
P _D	Power Dissipation	500	mW
R _{θJA}	Thermal Resistance, Junction to Ambient	300	°C/W

Specification Features:

- DO-35 Package (JEDEC)
- Through-Hole Device Type Mounting
- Hermetically Sealed Glass
- Compression Bonded Construction
- All external surfaces are corrosion resistant and leads are readily solderable
- RoHS Compliant
- Solder hot dip Tin (Sn) lead finish
- Cathode indicated by polarity band

Cathode Anode

ELECTRICAL SYMBOL

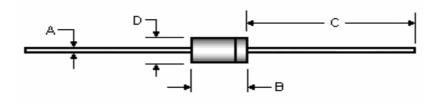
Electrical Characteristics $T_A = 25$ °C unless otherwise noted

Symbol	Parame	tor	Test Condition	Limits		Unit
	raiaille	tei	rest Condition	Min	Max	Oilit
B _V	Breakdown Voltage	TCBAV19	I _R =100μA	120		Volts
		TCBAV20		200		Volts
		TCBAV21		250		Volts
I _R	Reverse Leakage Current	TCBAV19	V _R =100V		100	nA
		TCBAV20	V _R =150V		100	nA
		TCBAV21	V _R =200V		100	nA
V _F	Forward Voltage		I _F =100mA		1.0	Volts
			I _F =200mA		1.25	Volts
T _{RR}	Reverse Recovery Time		I _F =I _R =30mA			
			R _L =100Ω		50	nS
			I _{RR} =3mA			
С	Capacitance		V _R =0V, f=1M _{HZ}		5.0	pF



Package Outline

Case Outline Package



DO-35

	DO-35			
DIM	Millimeters		Inches	
	Min	Max	Min	Max
Α	0.46	0.55	0.018	0.022
В	3.05	5.08	0.120	0.200
С	25.40	38.10	1.000	1.500
D	1.53	2.28	0.060	0.090

Notes:

- 1. All dimensions are within JEDEC standard.
- 2. DO35 polarity denoted by cathode band.

This datasheet presents technical data of Tak Cheong's Switching Diodes. Complete specifications for the individual devices are provided in the form of datasheets. A comprehensive Selector Guide is included to simplify the task of choosing the best set of components required for a specific application. For additional information, please visit our website http://www.takcheong.com.

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